



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Sunshine Windows Manufacturing, Inc.
1745 West 33rd Place
Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "1650" Aluminum Horizontal Sliding Window-Impact

APPROVAL DOCUMENT: Drawing No. **HS99-04**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) 3/8" Heat Strengthened Laminated", sheets 1 through 3 of 3, prepared by Francisco Hernandez, P.E., dated 8/16/99 with revision on 1/7/03, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 99-0909.05** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime Eisen, P.E.**



NOA No 03-0116.12
Expiration Date: March 17, 2008
Approval Date: February 27, 2003
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **HS99-04**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) 3/8" Heat Strengthened Laminated", sheets 1 through 3 of 3, prepared by Francisco Hernandez, P.E., dated 8/16/99 with revision on 1/7/03, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

Submitted under NOA# 99-0909.05

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with the manufacturer's marked up design drawings of window w/ *Glasslam Safety Plus* interlayer film glazing, prepared by Fenestration Testing Laboratory No. **FTL-2316**, dated June 15, 1999, signed and sealed by Jose D. Mitrani, P.E.

C. CALCULATIONS

Submitted under NOA# 99-0909.05

1. Comparative analysis and anchor calculations dated August 28, 1999, prepared, signed and sealed by Francisco Hernandez, P.E.

D. MATERIAL CERTIFICATIONS

Submitted under NOA# 99-0909.05

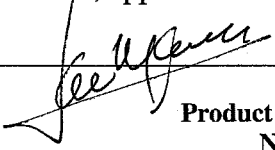
1. Notice of Acceptance No. **97-0527.04** issued to Glasslam Safety-Plus Laminated Glass" dated 09/09/97, expiring on 09/09/2000.
2. Aggregate Certification, dated November 10, 1995, by CSR Rinker Materials for No. 6 coarse mineral aggregate per ASTM D-1863-86 "Standard Specification for Mineral Aggregate Used on Built-Up Roofs".

D. STATEMENTS

1. None

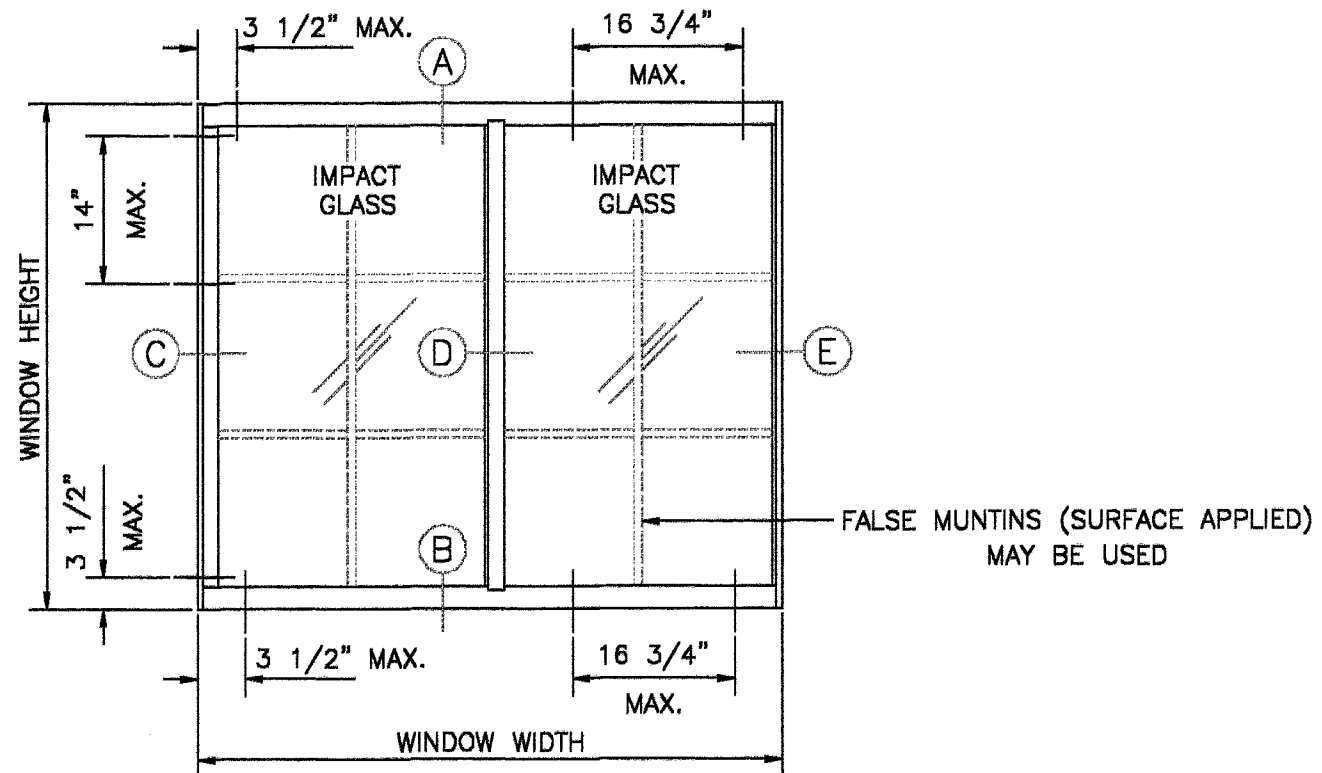
F. OTHER

1. Notice of Acceptance No. **99-0909.05** Sunshine Windows Manufacturing, Inc., Series 1650 Aluminum Horizontal Sliding Window, approved on 3/17/00 and expiring on 3/17/03.


Jaime Eisen, P.E.
Product Control Examiner
NOA No 03-0116.12

Expiration Date: March 17, 2008
Approval Date: February 27, 2003

DESIGN PRESSURE CHART - PSF									
SERIES 1650 ALUMINUM									
HORIZONTAL SLIDING WINDOW (XO)									
3/8" HEAT STRENGTHENED LAMINATED IMPACT RESISTANT GLASS									
WINDOW DIMENSION				ANCHOR SCHEDULE		HURRICANE PROTECTION IS NOT REQUIRED			
WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	1 3/4" SILL		3" SILL			
				EXT.	INT.	EXT.	INT.		
STANDARD SIZES	26 1/2"	26"	3	3	53.3	90.0	80.0	90.0	
	37"		53.3		90.0	80.0	90.0		
	53 1/8"		4		53.3	90.0	80.0	90.0	
	74"		6		53.3	90.0	80.0	90.0	
	26 1/2"	38 3/8"	3	4	53.3	90.0	80.0	90.0	
	37"		3		53.3	90.0	80.0	90.0	
	53 1/8"		4		53.3	90.0	80.0	90.0	
	74"		6		53.3	90.0	80.0	90.0	
	37"	50 5/8"	3	5	53.3	90.0	80.0	90.0	
	53 1/8"		4		53.3	90.0	80.0	90.0	
	74"		6		53.3	90.0	80.0	90.0	
	37"	63"	3	5	53.3	90.0	80.0	90.0	
	53 1/8"		4		53.3	90.0	80.0	90.0	
	74"		6		53.3	90.0	80.0	90.0	
	MODULAR SIZES	24"	24"	3	3	53.3	90.0	80.0	90.0
		36"		3		53.3	90.0	80.0	90.0
48"		4		53.3		90.0	80.0	90.0	
60"		5		53.3		90.0	80.0	90.0	
72"		6		53.3		90.0	80.0	90.0	
24"		36"	3	4	53.3	90.0	80.0	90.0	
36"			3		53.3	90.0	80.0	90.0	
48"			4		53.3	90.0	80.0	90.0	
60"			5		53.3	90.0	80.0	90.0	
72"			6		53.3	90.0	80.0	90.0	
36"		48"	3	4	53.3	90.0	80.0	90.0	
48"			4		53.3	90.0	80.0	90.0	
60"			5		53.3	90.0	80.0	90.0	
72"			6		53.3	90.0	80.0	90.0	
36"		60"	3	5	53.3	90.0	80.0	90.0	
48"			4		53.3	90.0	80.0	90.0	
60"			5		53.3	90.0	80.0	90.0	
72"			6		53.3	90.0	80.0	90.0	



TYPICAL ELEVATION (XO)

IMPACT RESISTANT WINDOW

NOTE:

FOR NUMBER OF ANCHORS REQUIRED FOR EACH UNIT SIZE REFER TO ANCHOR SCHEDULE COLUMN IN THE DESIGN PRESSURE CHART

BASED ON FTL-2316 DATED 6-15-99
 TEST SIZE= 74" X 63" (XO)
 TEST LOADS= +120.0 -135.0 PSF
 DESIGN LOADS= +80.0 -90.0 PSF
 WATER INFILTRATION TEST= 8.0 AND 12.0 PSF
 TESTED GLASS= 3/8" HEAT STRENGTHENED LAMINATED
 CYCLIC WIND LOAD TEST= +90.0 -90.0 PSF

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0116.12
 Expiration Date 03/12/08
 By: *[Signature]*
 Miami Division Product Control

[Signature]
 1-12-03
 FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

Sunshine Windows
 Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)364-9952
 Fax: (305)828-5118

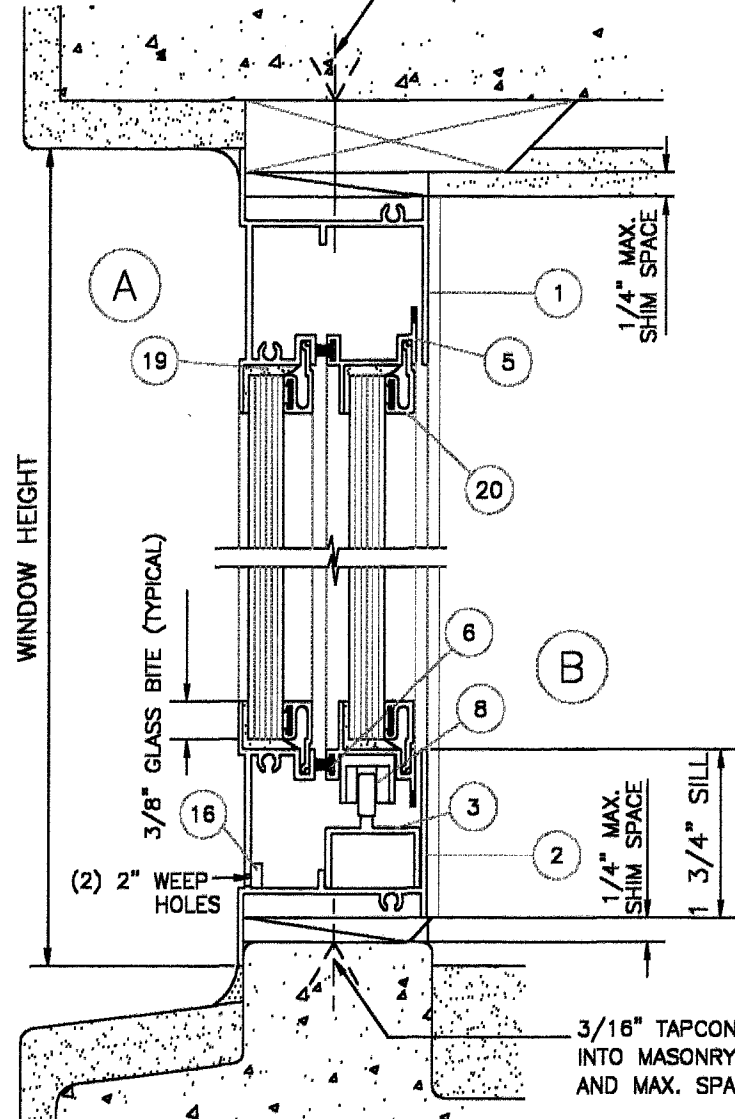
FRANCISCO HERNANDEZ P. E.
 Structural Engineering
 351 NW 82nd AVE #1118
 Miami, Florida 33126
 Phone (305) 266 8670
 Fax (305) 266 3427

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
3/8" HEAT STRENGTHENED LAMINATED
IMPACT RESISTANT GLASS

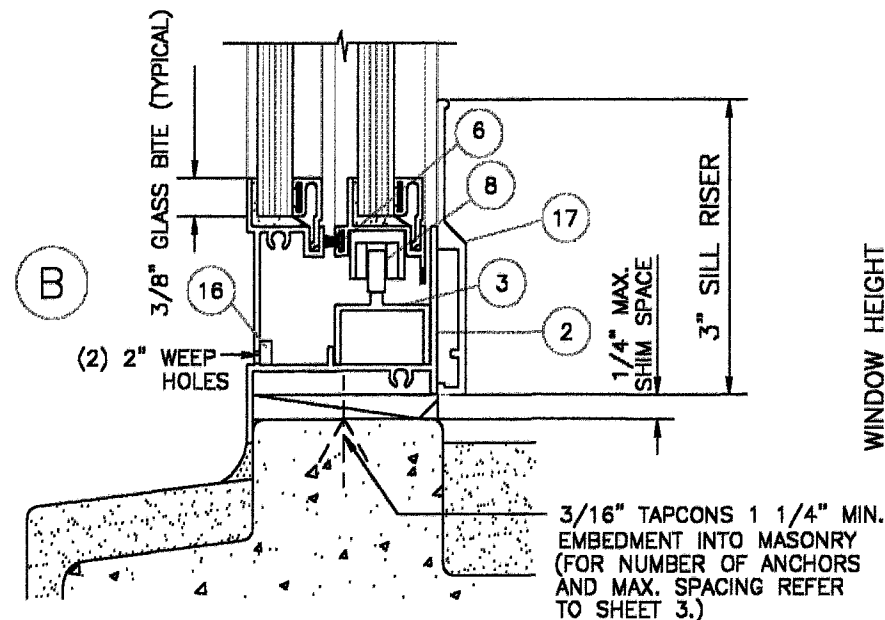
Drawn By: MH
 Date: 8-16-99
 Scale: 1/2"=1'
 Revision: 1-7-03
 Revision: _____

DRAWING NO.
 HS99-04
 SHEET
 1 OF 3

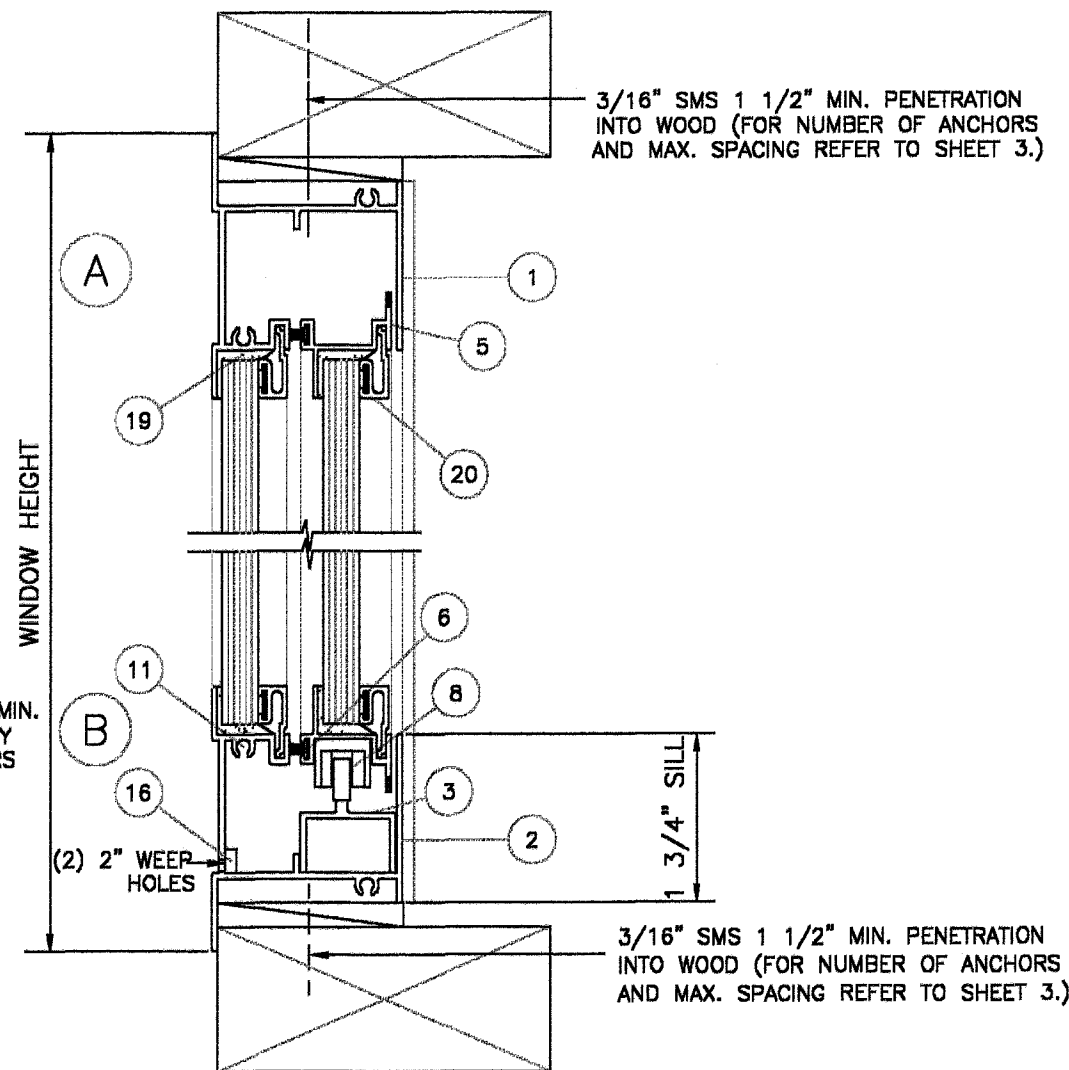
3/16" TAPCONS 1 1/4" MIN. EMBEDMENT INTO MASONRY
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 3.)



**ATTACHMENT TO MASONRY
VERTICAL SECTION**

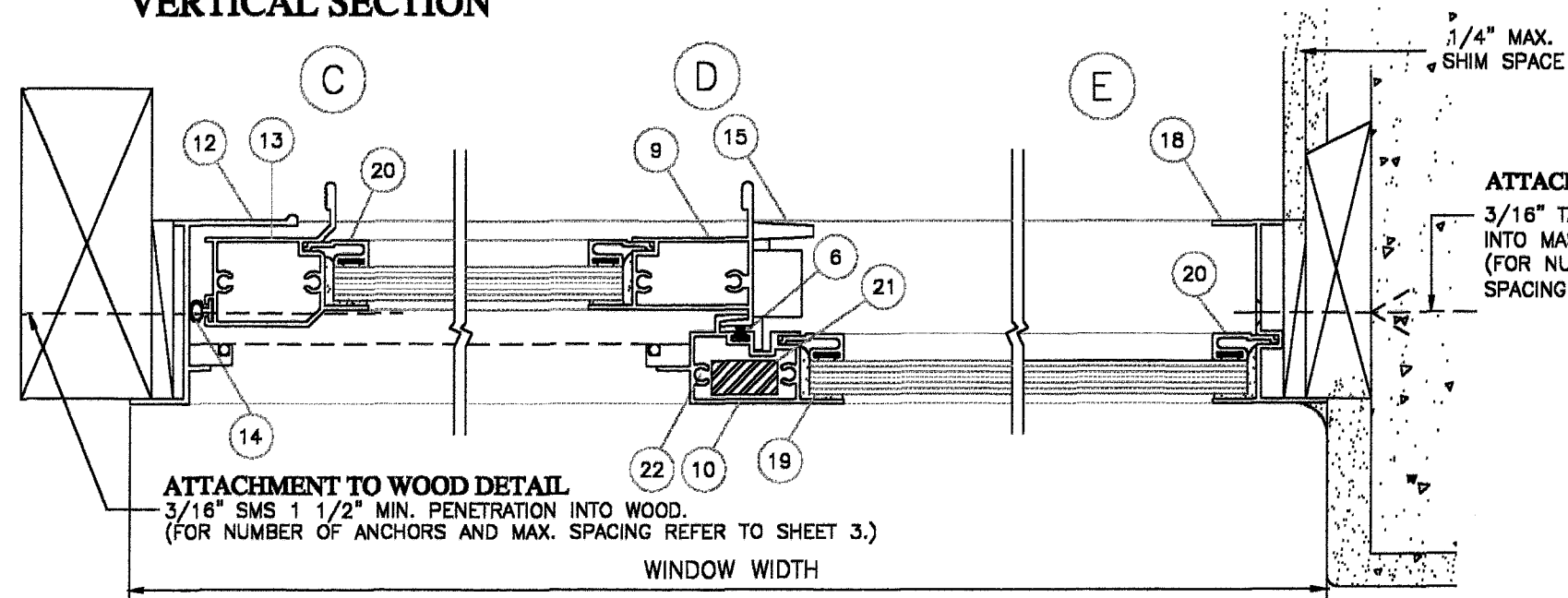


**VERTICAL SECTION
WITH SILL RISER**



**ATTACHMENT TO WOOD
VERTICAL SECTION**

WOOD BUCKS NOT BY SUNSHINE WINDOWS MUST
SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM.



ATTACHMENT TO WOOD DETAIL
3/16" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 3.)
WINDOW WIDTH

ATTACHMENT TO MASONRY DETAIL
3/16" TAPCONS 1 1/4" MIN. EMBEDMENT
INTO MASONRY.
(FOR NUMBER OF ANCHORS AND MAX.
SPACING REFER TO SHEET 3.)

GLAZING :

MATERIAL :

3/8" OVERALL LAMINATED GLASS USING TWO LIGHTS
OF 1/8" HEAT STRENGTHENED GLASS WITH AN 0.010"
INTERLAYER FILM, GLASSLAM SAFETY PLUS, AND 3/8"
WIDE CLOSED CELL FOAM, FRANK LOWE RUBBER AND
GASKET S-10, ON EACH SIDE OF FILM AT PERIMETER
EDGE.

METHOD:

INTERIOR GLAZED WITH 3/8" GLAZING PENETRATION
USING A BLACK COLORED SILICONE, AND AN
EXTRUDED ALUMINUM SNAP ON GLAZING BEAD WITH
A VINYL BULB BETWEEN BEAD AND GLASS.
GLAZING BEAD WAS FASTENED TO FRAME IN TEST
UNIT WITH NO. 8 BY 1" FHMS TWO AT EACH
HORIZONTAL BEAD AND THREE AT EACH VERTICAL BEAD

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0116.12
Expiration Date 03/17/08
By: [Signature]
Miami Office Product Control
Division

[Signature]
1-12-03

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
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Ph: (305)364-9952
Fax: (305)828-5118

FRANCISCO HERNANDEZ P. E.

Structural Engineering
351 NW 82nd AVE #11118
Miami, Florida 33126
Phone (305) 266 8670
Fax (305) 266 3427

**SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
3/8" HEAT STRENGTHENED LAMINATED
IMPACT RESISTANT GLASS**

Drawn By: MH

Date: 8-16-99

Scale: 1/2"=1"

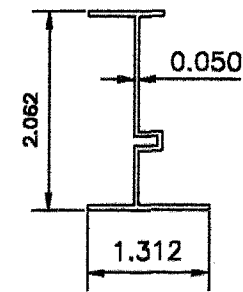
Revision: 1-07-03

Revision:

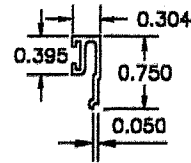
DRAWING NO.
HS99-04

SHEET
2 OF 3

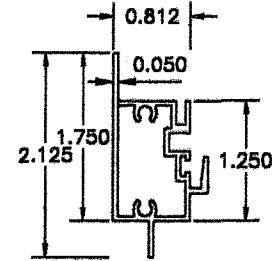
IMPACT RESISTANT WINDOW



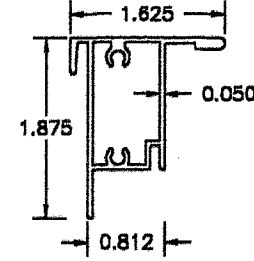
JAMB TO FIXED PANEL
SW-014
6063-T5



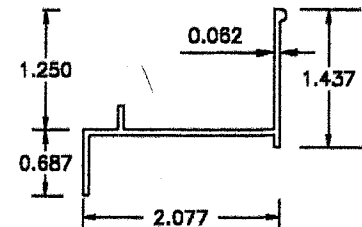
IMPACT GLAZING BEAD
SSW-101
6063-T6



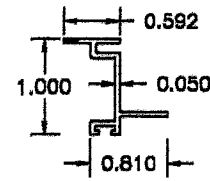
FIXED MEETING RAIL
SW-40111
6063-T5



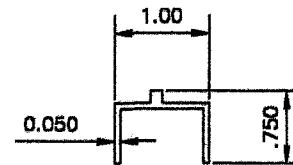
MOVING MEETING RAIL
SW-017
6063-T5



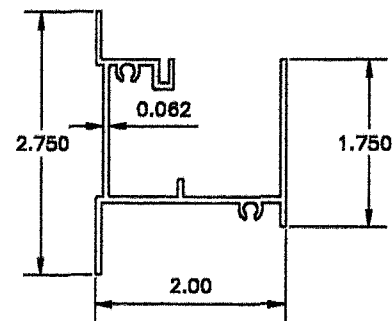
FRAME JAMB TO MOVING PANEL
SW-013
6063-T5



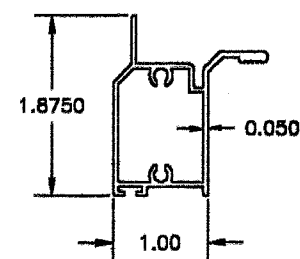
SLIDER TOP AND BOTTOM RAIL
SW-012
6063-T5



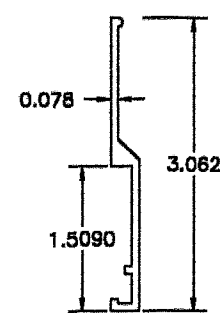
INSERT TRACK
SW-xxx21
6063-T5



FRAME HEAD AND SILL
SW-019
6063-T5



MOVING SIDE RAIL
SW-016
6063-T5



SILL RISER
SW-40771
6063-T5

MATERIAL LIST

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	SW-019	1	FRAME HEAD	6063-T5
2	SW-019	1	FRAME SILL	6063-T5
3	SWxxx21	1	INSERT TRACK	6063-T5
5	SW-012	2	SLIDER TOP/BOTTOM RAIL	6063-T5
6	SW3019	AS RQD	FIN SEAL PILE	FELT
8	SW321W	2	WHEEL	BRASS
9	SW-017	1	MOVING MEETING RAIL	6063-T5
10	SW40111	1	FIXED MEETING RAIL	6063-T5
11	SW-AS	AS RQD	ASSEMBLY SCREWS	# 8 X 1" SMS.
12	SW-013	1	JAMB TO MOVING PANEL	6063-T5
13	SW-016	1	MOVING SIDE RAIL	6063-T5
14	SW3257	AS RQD	WEATHER STRIP BULB	VINYL
15	SW-667	AS RQD	LATCH	ZINC
16	SW-S10	2/SILL	RETICULATED FILTER	FOAM
17	SW40771	1	SILL RISER	6063-T5
18	SW-014	1	JAMB TO FIXED PANEL	6063-T5
19	-	AS RQD	SILICONE	DC-795 OR SIMILAR
20	SW-101	AS RQD	IMPACT GLAZING BEAD	6063-T6
21	SW-STL	1	3/8" X 3/4" FLAT BAR	STEEL
22	SW-AS	4	ASSEMBLY SCREWS	# 8 X 2 1/2" SMS.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 03-0116.12
Expiration Date 03/13/08
By *[Signature]*
Miami Data Product Control
Division

[Signature]
1-12-03

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SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
3/8" HEAT STRENGTHENED LAMINATED
IMPACT RESISTANT GLASS

Drawn By: MH
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Revision:

DRAWING NO.
HS99-04

SHEET
3 OF 3